# LYAKHOV, Q.M., kand. tokhm. nauk

Comments on I.F.Naumkin's book "Safety engineering in coal mines."

Bezop.truda v prom. 7 nc.7:37 Jl '63. (MIRA 16:9)

(Coal mines and mining—Safety measures)

(Naumkin, I.F.)

### "APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001031020002-2

L 47736-65 EWA(h)/EWT(1) Peb GW
ACCESSION NR AM5004504 BOOK EXPLOITATION

s/ /6

Lyakhov, Georgiy Mikhaylovich (Doctor of Technical Sciences)

#

Principles of the dynamics of blasting in the ground and liquid mediums (Osnovy dinamiki vzryva v gruntakh i zhidkikh sredakh), Moscow, Izd-vo "Nedra", 1964, 215 p. illus., biblio. Errata elip inserted. 2,000 copies printed.

TOPIC TAGS: explosion, mining, geophysics, explosion wave, seismology

PURPOSE AND COVERAGE: This book presents the principles of the dynamics of underground explosions. Some results of the research can be used in calculating the effect of explosions in simple strata and liquid media. It gives information from soil mechanics and the theory of explosion waves in dense media. The book considers the simplest methods of calculating the interactions of waves with building structures. It includes the results of experimental research on waves in soils, and interactions with obstructions and the liquefaction of water-saturated sands in explosions. The results make it possible to be more exact about the physical essence of the effect of an explosion and provide tested data for calculating the dynamic loads on building structures for a more general definition of safety requirements in explosion operations. The book is intended for researchers and engineers concerned with the applied problems of explosion

Card 1/2

L 47736-65 ACCESSION NR AM5004504 theory, the dynamics of buildings, and soil mechanics; it also can be used by advanced students in the appropriate specialties. TABLE OF CONTENTS [abridged ]: Foreword -- 3 Introduction -- 4 Ch. I. Physical principles of the dynamics of an explosion in soil - 7 Ch. II. Experimental investigation of explosion waves in soils — 26
Ch. III. Easic regularities of wave propagation in dense liquid media — 83
Ch. IV. Basic regularities of wave propagation in solid media — 128 Ch. V. Shock waves in lamellar media - 148 Ch. VI. Interaction of waves in dense media with obstacles and building structures - 169 Bibliography -- 212 SUB CODE: ES. WA SUBMITTED: 30May64 OTHER: 010 NO REF SOV: 060 2/2/18 Card

GAVRICHKOV, Fedor Stepanovich; SHILIN, Boris Alekseyevich;
LYAKHOV, G.M., kand. tekhn. nauk, retsenzent; SAIRNOV,
L.V., otv. red.

[Miner of horizontal and inclined workings] Prokhodchik gorizontal'nykh i naklonnykh gornykh vyrabotok. Moskva, Nedra, 1965. 235 p. (MIRA 18:7)

L 15871-66 EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(w)/FCC/EWA(d)/WP(n)/FCS(k)/EWA(h)/ACC NR: AP6004436 SOURCE CODE: UR/0414/65/000/003/0083/0092 ETC(m)-6 LJP(c) WW/EM

AUTHOR: Lyakhov, G. M. (Moscow); Osadchenko, R. A. (Moscow); Polyakova, N. I. (Moscow)

ORG: none

TITLE: Interaction between a shock wave and a moving obstacle in a plastic medium with regard to the effect of the free surface

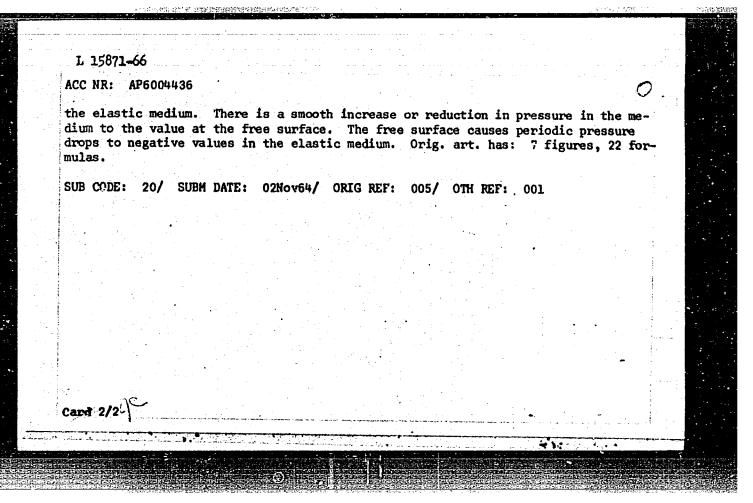
SOURCE: Fizika goreniya i vzryva, no. 3, 1965, 83-92

TOPIC TAGS: wave mechanics, shock wave propagation

ABSTRACT: The authors consider interaction between a plane compression wave and an obstacle in elastoplastic media taking account of the free surface factor. The medium is described and wave propagation is analyzed with regard to interaction between the wave and the obstacle. The results are analyzed for interaction of non-stationary and stationary waves with an obstacle of infinite mass. Curves are given showing the pressure acting on an obstacle of finite mass for various ratios between the acoustic resistances of the media in front of and behind the obstacle. It is found that the free surface has a more rapid effect in the plastic medium than in

Card 1/2

UDC: 532.593



ENT(1)/ENP(m)/EWA(d)/EWA(h) WW/GW 1 26629-66 SOURCE CODE: UR/0207/66/000/002/0090/0096 ACC NR: AP6013926 AUTHOR: Kuznetsov, V. I. (Moscow); Lyakhov, G. H. (Moscow) ORG: none TITLE: Experimental investigation of the interaction between shock waves and barriers in the soil SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 90-96 TOPIC TAGS: compression shock wave, shock wave analysis, wave mechanics, shock wave interaction, soil mechanics 12 ABSTRACT: Data are given from experiments on the interaction between a plane shock wave and a moving barrier in the ground. An approximate solution is given for the problem of this interaction considering the soil to be nonlinearly elastic at high pressures and plastic at low pressures. This type of model is applicable to shock waves in soils with and without water saturation. Experiments are conducted to determine the curve for the dynamic compressibility of the soil and it is shown that this curve conforms to the equation of state for water-saturated soil considered as a three-component ideal liquid at pressures greater than 15-20 • 10 5 N/m2. The expressions for the load on the barrier gave results which agreed satisfactorily with direct experimental measurements. The authors are grateful to S. D. Mizyakin for taking part in the experiments. Orig. art. has: 7 figures, 23 formulas. OTH REF: 000 SUB CODE: 20/ SUBM DATE: 16Aug65/ ORIG REF: 007/

L 26763-66 EWT (1)/EWP(m)/EWA(d)/EWA(h) WW

ACC NR: AP6013927 SOURCE CODE: UR/0207/66/000/002/0096/0099

AUTHOR: Kuznetsov, V. I. (Moscow); Lyakhov, G. M. (Moscow)

ORG: none (Moscow)

TITLE: Interaction between a wall and waves from a one-dimensional gas detonation with long and negligibly short periods of ignition induction

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1966, 96-99

TOPIC TAGS: gas detonation, detonation wave, wave mechanics, shock wave reflection

ABSTRACT: The authors consider collision between an absolutely rigid wall and a plane shock front propagating in a reactive medium. It is assumed that the reflection is a detonation wave propagating in an explosive gas mixture treated as an ideal gas which is compressed by the precussion but has not yet reacted. This case is possible when the period of the ignition induction in the incident wave is much longer than that in the reflected detonation wave. A theoretical formula is derived for the ratio between the velocities of the reflected and incident waves, assuming that there is no chemical reaction in the gas for a definite period of time during propagation of the incident wave. A second limiting case is considered where it is assumed that the entire region of the compressed gas in the detonation wave is completely filled with detonation products immediately after incidence of the wave front against the wall.

Card 1/2

ACC NRI	3 <b>-66</b> AP601392	7					······································	10
n conc.	lusion the	author thank	ks <u>Ya. K. Trosh</u> rt. has: 2 fig	in who sugge	ested inve	stigation (	of deto	na-
	•		: 03Dec65/	and the second second second		OTH REF:	004	
							:	
								Section of the sectio
								Section of the sectio
								Section 1
2/2	ple							and the second s
rd 2/2	<u> </u>					·		

ACC NR: AT6034253

SOURCE CODE: UR/0000/65/000/000/0043/0053

AUTHOR: Lyakhov, G. M.; Dubova, R. I.

ORG: none

TITLE: Waves in soil during surface explosions and their interaction with obstacles

SOURCE: AN SSSR. Sibirskoye otdeleniye. Uchenyy sovet po narodnokhozyaystvennomu ispol'zovaniyu vzryva. Sessiya. 5th, Frunze, 1963. Trudy. Frunze, Izd-vo Ilim, 1965, 43-53

TOPIC TAGS: underground explosion, high explosive, shock wave propagation

ABSTRACT: In an earlier work, several results were given of experimental studies of waves generated in soil by surface explosions, where the charge was placed on the soil surface. In the present paper, the results of experiments are presented which compare the waves generated by underground and surface explosions. The reflection of waves from stationary obstacles is discussed. The experiments were carried out in a disturbed sandy soil (sandy fill). TNT charges were used ranging from 0.2 to 1.6 kg. The wave parameters were recorded, using high frequency tensometers, on an oscillograph. Sensors were placed in the soil along lines perpendicular to the surface and radial lines. At some locations two sensors were oriented in radial and transverse directions to the direction of wave motion; at others a three-component set of detectors was used. In

Card 1/2

### ACC NR: AT6034253

the experiments, the speed of propagation of the wave front and maximum pressure was studied as a function of a scaled distance which was a function of the actual distance and the inverse cube-root of the weight of the charge. This comparison was made for charges fired both on the surface and underground. In the discussion of results, the waves are explained as being due to the superposition of the outgoing wave from the source, a wave reflected from a subsoil layer, and a signal generated by the air wave. Orig. art. has: 22 formulas, 7 figures.

SUB CODE: 08,19/ SUBM DATE: 03Sep65/ ORIG REF: 005/ OTH REF: 001

Card 2/2

EWT(1)/EWP(m)/EWA(d)/EWA(h)/ETC(m)-6/EWA(1) JKT/WW ACC. NR: AM6007342 Monograph Panichkin, Ivan Aleksandrovich; Lyakhov, Andrey Borisovich Principles of gas dynamics and its application to the design of supersonic wind tunnels (Osnovy gazovoy dinamiki i ikh prilozheniye k raschetu sverkhzvukovykh aerodinamicheskikh trub) Kiev, Izd-vo Kievsk. univ., 1965. 150 p. illus., biblic TOPIC TAGS: aerodynamics, gas dynamics, shock wave, oblique shock wave, supersonic wind tunnel, shock wave reflection, velocity measuring instrument PURPOSE AND COVERAGE: This book is intended for engineers engaged in the field of high-speed aerodynamics and also for senior students in schools of higher education. It contains an account of the theory of one-dimensional, steady motion of an ideal gas and application of this theory to the design of gas dynamic properites of supersonic wind tunnels. It presents a more detailed treatment of the gas dynamic problems related to wind tunnels than is found in the known textbooks on gas dynamics. It is divided into three main sections dealing with the theoretical aspects of gas motion, the gas dynamics of supersonic wind tunnels, and calculations of gas dynamic characteristics of the latter. Card 1/3

1000 - <b>200</b> 0000000000000000000000000000000000	agua yar.		13.5	11.354.18
	For the state of t	and the same and t	The state of the s	
		•		
L 25586-66				
ACC NR: AM6007342	•			-
TABLE OF CONTENTS: [abr	idged]		<b>0</b>	
Section I. One-Dimensio	nal motion of an idea	l gas.		
Introduction 3				
1. Equation of motion — 2. Equation of continui 3. Basic thermodynamic 4. Equation of energy — 5. Speed of sound — 15 6. Different forms of th 7. Equation of isentropi 8. Specific flow rate — 9. Geometric representat 10. Flow of gas from a r 11. Nozzles — 34 12. Straight shocks — 3 13. Oblique shocks — 48 14. The shock polar — 6 Card 2/3	ty 7 celations 10 - 12 le energy equation c gas flow 25 - 28 ion of the pressure veservoir 32		ation 31	
			The second secon	enseerd en het de s

ran in a sangarah dari dari dari dari dari dari dari dari			
L 2558666			
ACC NR: AM6007342  15. Entropy jump 7C 16. Reflection of oblique 17. Shock waves in a nozzl 18. Shock waves in an idea 19. Measurement of flow ve  Section II. Gas Dynamics of	le 81 Il gas with heat so locities 90	2	0
Introduction 98  1. Basic components of a w 2. Classification of wind 3. Calculation of gas dyna	ind tunnel 98	i tunnels 114	
Bibliography 140 Appendix 141 SUB CODE: 20/ SUBM DATE:			
Card 3/3dda			

VENTSKOVSKIY, L.E. (Moskya); LYAKHOV, I.I. (Moskya)

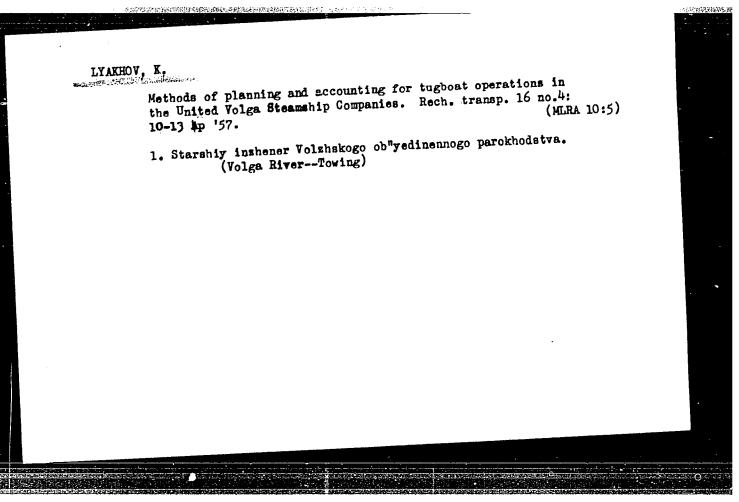
Importance of physics courses in raising the working qualifications of students studying in evening (shift) classes. Fiz. v shkole 20 no.5:36-42 S-0 '60. (MIRA 13:11)

KERTSMAN, G.I. (Moskva); LYAKHOV, I.I. (Moskva)

Let's lead a persistent struggle for the improvement of the quality of students' knowledge. Fiz. v shkole 21 no.2:53-55 Mr.-sp '61.

(Physics--Problems, exercises, etc.)

(MIRA 14:8)



LYAKHOV, K., inzh. Method of establishing transportation schedules in heavy freight-Method of establishing transportation sometimes of 60.

flow directions. Rech. transp. 19 no.10:18-20 0 60.

(MIRA 13:11)

(Inland water transportation)

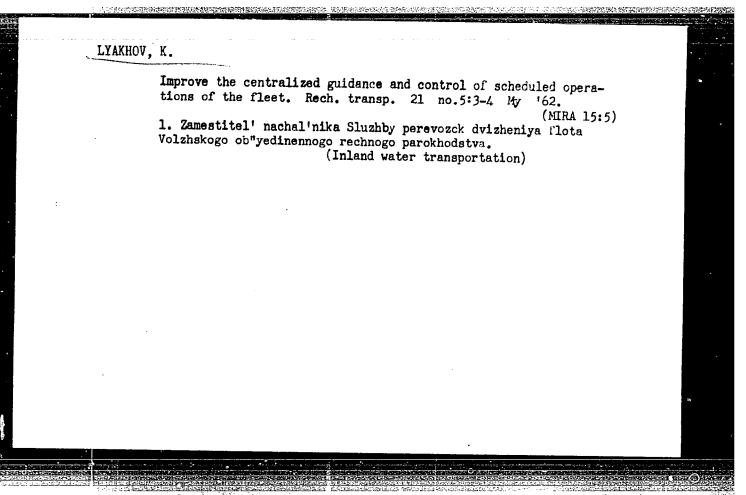
KHEYFETS, M.; LYAKHOV, K., starshiy inzh.

Integrated schedule for 1961 of steamship lines in the central basins.

Rech. transp. 20 no.5:4-8 My '61.

1. Zamestitel' nachal'nika sluzhby perevozok i dvizheniya flota
Volzhskogo ob"yedinennogo rechnogo parokhodstva (for Kheyfets).

(Inland water transportation) (Steamboat lines)



Methods of establishing transportation lines in mastering the flow of small-batch cargoes. Rech.transp. 22 no.1:114-15 Ja '63. (MIRA 16:2)

(Inland water transportation)

KHEYFETS, M., inzh.; LYAKHOV, K.

New developments in the schedule of fleet movements in central basins. Rech. transp. 21 no.6:8-9 Je '62. (MIRA 15:7)

1. Zamestitel' nachal'nika sluzhby perevozok i dvizheniya flota Volzhskogo ob"yedinennogo rechnogo parokhodstva.

(Volga Valley--Inland water transportation)

### LYAKHOV, K.

Attaching a group of sister ships to a group of cargo lines. Rech. transp. 22 no.11:18-19 N '63. (MIRA 16:12)

1. Zamestitel' nachal'nika sluzhby ekspluatatsii flota i portov Volzhskogo ob"yedinennogo rechnogo parokhodstva.

GOR'KOV, N.; LYAKHOV, K.

Program of action of the Volga River workers. Rech. transp. 22 no.3:3-4 Mr 163. (Mina 16:4)

1. Nachal nik sluzhby ekspluatatsii flota i portov Volzhskogo ob bedinennogo rachnogo parokhodstva (for Gor'kov). 2. Zamestitel nachal nika sluzhby ekspluatatsii flota i portov Volzhskogo ob yedinennogo rechnogo parokhodstva (for Lyakhov).

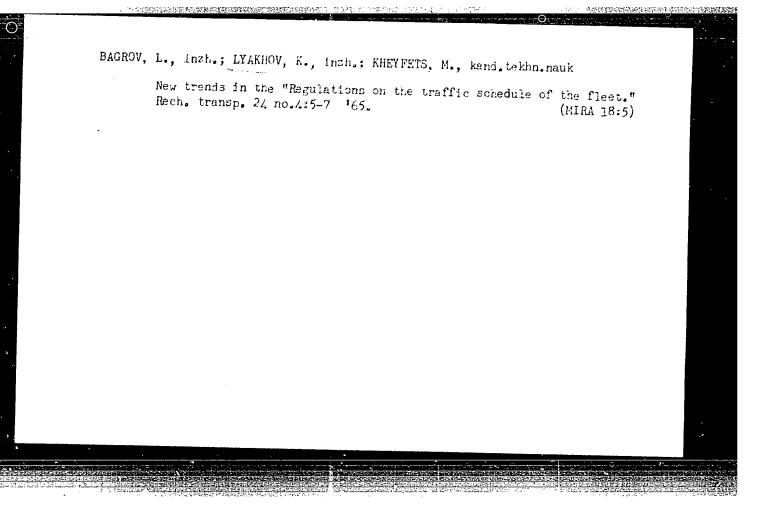
(Volga River—Shipping)

KHEYFETS, M., ingh.; LYAKHOV, K., ingh.

Calculating time norms for the transfer of ships through lock systems.

Rech. transp. 22 no.3:11-13 Mr \*63.

(Locks (Hydraulic engineering)) (Inland navigation)



Nakhov, Konstantin Atepanovich; Makkobhina, A.H., red.;

[For high engineering standards in the operation of the merchant marine; from work practices by the crew of the Volga cargo motorship "Chlmkent" in bulk cargo transportation] Za vysokuiu inzhenermuiu kulturu ekspluatatsii flota; iz opyta raboty ekipazha voltziskogo gruzovogo teplokhoda "Chinkent" na perevozkakh missovykh gruzov. Moskva, Transport, 1964. 49 p. (MIRA 17:10)

LYAKHOV, L.L.; SOLOVIYEV, G.A.; KADYEOV, I.N.

Geological and geophysical criteria in prespection for hidden tungster-molybdenum and tin-tungster mineralization. Izv.vys. ucheb.zav.; geol.i razv. 7 no.8:89-94 Ag 155.

(MIRA 18:11)

1. Moskovskiy geologoranvedochnyy institut im. S.Grdshonikidze.

YAKUBOVSKIY, Yuriy Vladimirovich; IYAKHOV, Lev L'vovich; BLOKH, I.M., kand. tekhn. nauk, retsenzent; BOGACHEVA, N.G., ved. red.

[Electric prospecting] Elektrorazvedka. Izd.2., perer. i dop. Moskva, Nedra, 1964. 417 p. (MIRA 17;11)

VIKHERT, E.M.; DOBROGAYEV, R.P.; LYAKHOV, M.I. PANIAN, A.V.;
SOLOVYEV. M.P.: STEPANOV, Yu.A. [deceased]. SOVOROV, V.G.;
STEPANOV, G.Yu., prof., red.

[Design and construction of motor-vancle and tractor engines] Konstruktsiia i raschet avtotraktornykh dvigatelei.
Izd. 2., perer. i dop. Moskva, Mashinostroenie, 1964. 552 p.

(MIRA 18:4)

ZAPARA, S.A., kand.tekhn.nauk; LYAKHOV, N.I., gornyy inzh.; GENERALOV, G.S.

Possibilities of increasing the productivity per shift of jet piercing rigs in an open pit of the Krivoy Rog Southern Mining and Ore Pressing Combine. Gor.zhur. no.2:39-41 F 163.

(MIRA 16:2)

1. Mauchno-issledovatel skiy gornorudnyy institut, Krivoy Rog (for Zapara, Lyakhov). 2. Glavnyy inzhener Yuzhnogo gornoobogatitel nogo kombinata (for Generalov). (Krivoy Rog Basin-Boring machinery)

LYAKHOV, Konstantin Stepanovich, inzh.; KHEYFETS, Movsha Berkovich, inzh.; ARSEN'YEV, S.P., retsenzent; VLADIMIROV, A.I., retsenzent; BARAKIN, A.P., red.; MAKRUSHINA, A.N., red. izdva; RIDNAYA, I.V., tekhn.red.

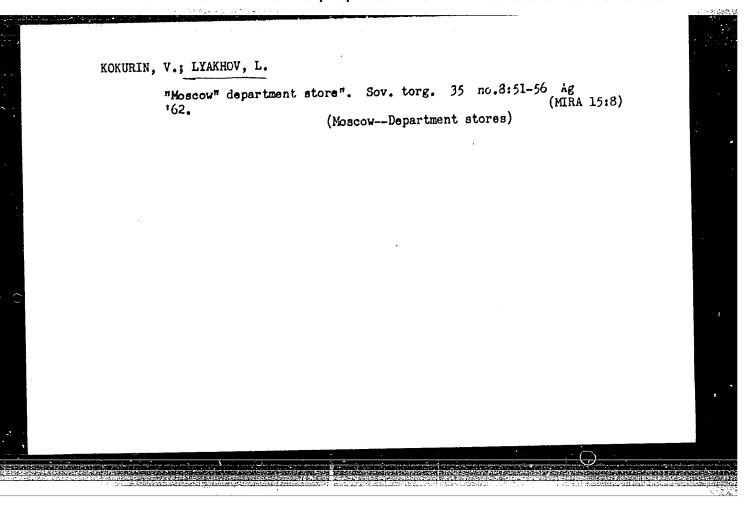
[Schedule of ship travel; principles of theory and calculation]Grafik dvizheniia flota; osnovy teorii i raschet. Moskva, Izd-vo "Rechnoi transport," 1962. 185 p.

(MIRA 15:11)

(Inland water transportation)

LYAKHOV, Konstantin Stepanovich, inzh.; CHENTSOV, Konstantin Petrovich, inzh.; SVIRIDOV, A.A., retsenzent; POGODIN, S.M., retsenzent; BARAKIN, Á.P., red.; MAKRUSHINA, A.N., red.izd-va; RIDNAYA, I.V., tekhn. red.

[Practical manual for a dispatcher in the river fleet] Prakticheskoe posobie dispetcheru rechnogo flota. Moskva, Izd-vo "Rechnoi transport," 1963. 197 p. (MIRA 16:12) (Inland water transportation—Handbooks, manuals, etc.)



LYAKROV, L. L., YAKUPOVSKIY, Yo., V., and CAPARIY, M. P.

"Experience Gained in the Application of Electric Prospecting in Searching for Fresh Underground Waters," Rezvedka i Characa Jeda, No. 3, pp 32-39, 1954

so: W-31h 7, 1 lop 55

YAKUBOVSKIY, Yuriy Vladimirovich; LYAKHOV, Lev L'yovich; Al'PIN, L.M., redaktor; KOLOSKOVA, M.I., redaktor izdatel'stva; GUROVA, O.A., tekhnicheskiy redaktor

[Electric geophysical exploration] Blektrorazvedka. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1956, 358 p.

(Prospecting—Geophysical methods) (MIRA 10:3)

ARISTOV, V.V.; LYAKHOV, L.L.; KOROLEV, B.N.; KADYROV, I.N.; KREYTER, V.M., nauchnyy red.; SERGEYEVA, N.A., red.izd-va; IYERUSALIMSKAYA, Ye.S., tekhn.red.

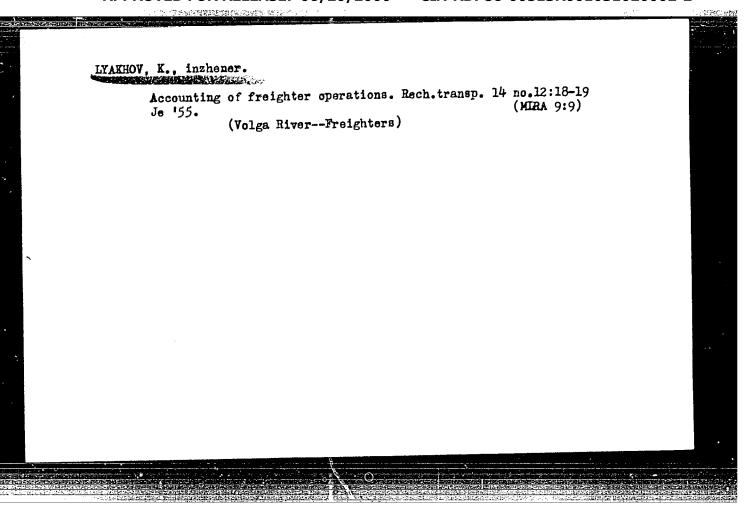
[Combining geological and geophysical methods for studying proved ore-bearing areas; work of the Scientific-Research Sector of the Moscow Geological Prospecting Institute] Sochetanie geologicheskikh i geofizicheskikh metodov pri izuchenii izvestnykh rudnykh raionov; iz opyta raboty Zabaikal skoi ekspeditaii NIS MAGRI. Moskva. Gos. nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. 1960. 41 p. (MIRA 14:1)

(Transbaikalia -- Ore deposits)
(Transbaikalia -- Prospecting -- Geophysical methods)

ARISTOV, V.V.; LYAKHOV, L.L.; KADYROV, I.N.; GRACHEVA, N.P.; PETROVA, M.G.; KOROLEV, B.N.

Predicting the structure of some Mesozoic depressions in Transbaikalia and problems relative to methods of prospecting for hidden deposits. Izv.vys.ucheb.zav.; geol.i razv. 4 no.2:76-90 F 161. (MIRA 14:6)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze. (Transbaikalia—Geology, Structural) (Prospecting)



## LYAKHOV, K.S., inzh.

Operations of the merchant marine according to a schedule of accelerated turnover. Proixv.-tekh. sbor. no.2:3-14 59.

(NIRA 13:10)

1. Volzhskoye Ob"yedinennoye rechnoye parokhodstvo. (Inland water transportation)

CYAKHOV, M. I

VIKHERT, Mikhail Mikhaylovich; DOBROGAYEV, Rostislav Pavlovich; LYAKHOV,

Mikhail Ivanovich; PAVLOV, Aleksey Vasil'yevich; SOLOV'YEV, Mikhail

Petrovich, professor; STEPANOV, Yuriy Aleksandrovich; SUVOROV, Viktor

Grigor'yevich; KHANIN, M.S., kandidat tekhnicheskikh nauk, retsenzent;

CHISTOZVONOV, S.B., retsenzent; NECHAYEV, B.K., doktor tekhnicheskikh

nauk, retsenzent; SHUBOVICH, S.I., kandidat tekhnicheskikh nauk,

retsenzent; YEGORKINA, L.I., inzhener, redsktor; SOKOLOVA, T.F.,

tekhnicheskiy redsktor

[Construction and design of truck and tractor engines] Konstruktsiia i raschet avtotraktornykh dvigatelei. Pod red. IU.A.Stepanova.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 604 p.

(MIRA 10:10)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut (for Khanin, Chistozvonov). 2. Kafedra dvigateley vnytrennego sgoraniya Tomskogo politekhnicheskogo instituta (for Nechayev, Shuhovich)

(Motortrucks--Engines) (Tractors--Engines)

MORDUKHOVICH, Mayer Matveyevich; KONEV, Boris Fedorovich; STEPANOV, Yu.A.,
doktor tekhn.nauk, retsenzent; LYAKHOV, M.I., kand.tekhn.nauk,
retsenzent; ARKHANGEL'SKII, V.M., kand.tekhn.nauk, red.; HAKHIMSOW,
V.A., red.izd-va; EL'KIND, V.D., tekhn.red.

[Fuel equipment of motor vehicles] Toplivneis apparatura avtomobil'nykh dvigatelei. Moskva, Gos.nauchno-tekhn.izd-vo meshinostroit.lit-ry, 1960. 254 p. (MIRA 13:12)

(Motor vehicles-Fuel systems)

#### "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

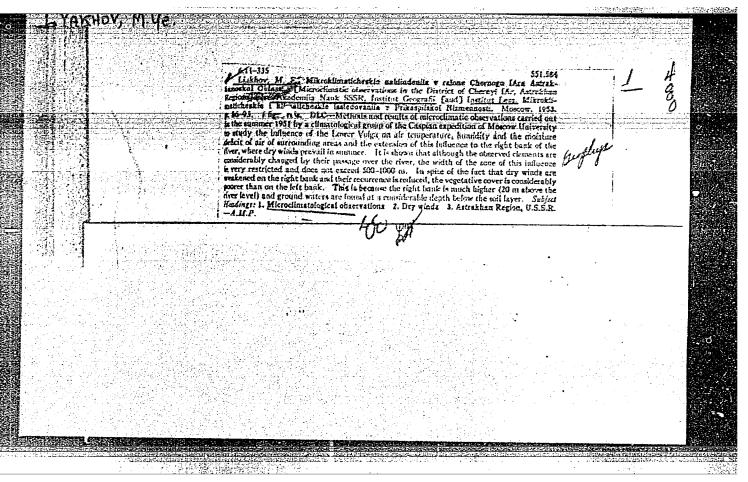
- LYAKHOV, M. YE.
- USSR (600)

"The Basic Processes Shaping the Climate of the Northwest Caucasus." Voncesy Geografii Collection 7, 1948 (139-136)

9. Meteorologiy i Gidrologiya, No. 3, 1949. Eepart U-2551. 30 Cet 52

CIA-RDP86-00513R001031020002-2" APPROVED FOR RELEASE: 06/20/2000

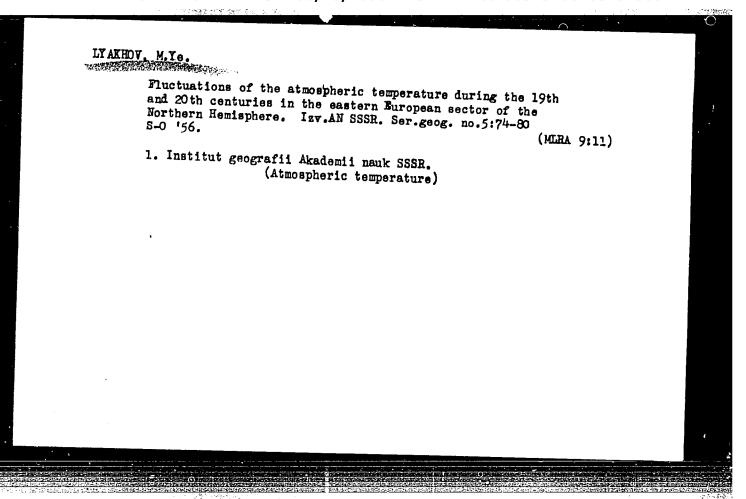
## "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2



LYAKIOV, M. E.

"Climatic Fluctuation in the European Part of the Saviet Union in the XIXth and XXth Centuries," Moscow, 1955

Moscow State University im. Lomonosov



LYAKHOV, M.Ye., kandidat goegraficheskikh nauk.

International goegraphic seminar in India. Prireda 45 ne.7:107-108
Jl '56. (MIRA 9:9)

1. Institut goegrafii Akademii nauk SSSR, Moskva.

(India--Goegraphy--Congresses)

#### "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

AUTHORS:

Lyakhov, M.Ye., Oskolkova, O.B.

SOV/10-58-5-19/28

TITLE:

The Bulletin of the International Council for the Study of Afro-Asian Geography, 1956 (Byulleten' mezhdunarodnogo soveta

po izucheniyu geografii Azii i Afriki)

PERIODICAL:

Izvestiya Akademii nauk SSSR - Seriya geograficheskaya,

1958, Nr 5, pp 126-128 (USSR)

ABSTRACT:

This is a review of the first copy of the Bulletin of the International Council for the Study of Afro-Asian Geography issued at Aligarh, India. The Bulletin will be published semi-annually and will contain bibliographical and other information on Afro-Asian geography.

There is one Soviet reference.

Card 1/1

## LYAKHOV, M.Ye.

Characteristics of climatic zones in the central part of the Pacific Ocean; according to observations made during the cruise of the "Vitiaz". " Izv.AN SSSR.Ser.geog. no.3:71-74 My-Je '60. (MIRA 13:6)

1. Institut geografii AN SSSE.
(Pacific Ocean-Climate)

# LYAKHOV, M.Ye.

Characteristics of climatic zones in the central part of the Pacific Ocean. Trudy Inst.okean. 40:23-28 \*60. (MIRA 14:8) (Pacific Ocean--Climate)

# On the monsoon climate of Kamchatka. Izv.AN SSSR.Ser.geog. no.3: 47-49 My-Je '61. (MIRA 14:5)

1. Kamchatskaya kompleksnaya ekspeditsiya Sibirskogo otdeleniya AN SSSR.

(Kamchatka—Climate) (Kamchatka—Monsoons)

# "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

LYAKHOV, M.Ye.

A trip across Assam. Vest.Mosk. un. Ser. 5: Geog. 17 no.1:50-56
Ja-r '62.

1. Institut geografii AN SSSR.

(Assam—Geography)

ZAPARA, S.A., kand. tekhn. nauk; LYAKHOV, N.I., inzh.

Increasing the efficiency of jet piercing machines at a strip mine of the Southern Mining and Ore Dressing Combine. Met. 2 gornorud. prom. no.6:48-51 N.D 162. (MIRA 17:8)

1. Nauchno-issledovateliskiy gornorudnyy institut, Krivoy Rog.

PANOV, V.A., kand. tekhn. nauk; METS, Yu.S.; LYAKHOV, N.I.; OKSANICH, I.F.

Improvement of boring and blasting operations in mining and ore dressing combines of the Krivoy Rog Basin. Met. i gornorud. prom. no.3:53-55 My-Je '65. (MIRA 18:11)

11

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;

BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;

DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINIGHENKO, V.F.;

KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;

LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, Yu.S.; OVODENKO,

B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;

POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;

SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;

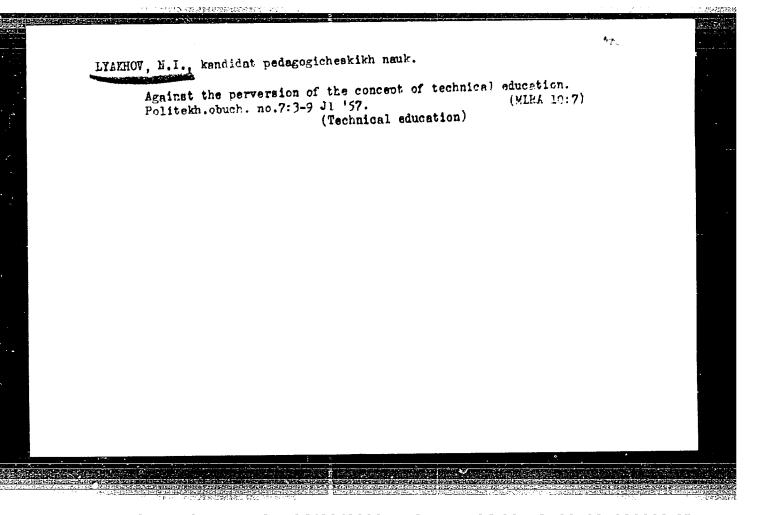
TERESHCHENKO, A.A.; TITOV, O.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;

SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy Rog Basin mining and ore dressing combines. Gor. zhur. no.6: 8-56 Je '63. (MIRA 16:7)

(Krivoy Rog Basin--Strip mining)

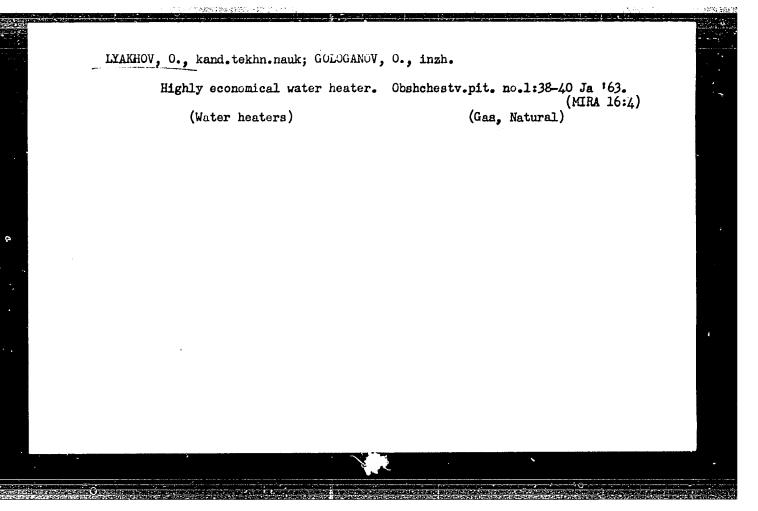
## "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2



#### LYAKHOV, N.I.

Work training in the schools of Ukraine. Politekh. obuch. no.8:8-12 Ag '59. (MIRA 12:10)

1.Glukhovskiy pedagogicheskiy institut.
(Ukraine--Vocational education)



LYAKHOV, O. G. Cand Tech Sci -- (diss) "The Hydraulic Mode of Complex Thermal Networks." Mos, 1957. 16 pp 20 cm. (Min of Power Stations USSR, All-Union Order of Labor Red Banner Heat Technology Scientific Research Inst im F. E. Dzerzhinskiy), 110 copies (KL, 17-57, 97)

-38-

LYAKHOV, O.G., inzhener.

Method for calculating flow distribution in thermal network having parallel operation of power stations. Teploenergetika 4 no.3:44-48 Mr \$57.

1. Vsesoyusnyy teplotekhicheskiy institut.
(Heating from central stations) (Electric power plants)

LYEKHOV O.G.

96-4-2/24

Zinger, N.M., (Candidate Tech.Sc.) and Lyalthov, O.G. AUTHORS:

(Candidate Tech.Sc.).

Some problems concerning hydraulic conditions of district-TITLE:

heating systems during combined operation of heat and

electric power stations. (Nelectoryye voprosy

gidravlicheskogo rezhima teplovykh setey pri sovmestnoy

rabote TETs)

No.4, pp 11-16 (USSR) PERIODICAL: Teploenergetika, 1958,

ABSTRACT: In the design and operation of district-heating systems in which a number of power stations are connected in

parallel on the heating side one of the most difficult questions is calculation of the appropriate hydraulic pressure. The hilliness of the locality, the need to prevent water from boiling in the heating system and the objections to excessive pressure in the power station heaters and in consumers' systems must all be considered. The main problems are those of regulating the flow of water from individual power stations and determining the 'water-sheds' in the supply and return mains (which often

do not coincide); also of determining the head on the return headers of various power stations and selecting the

Card 1/2 point for adding make-up to the system, and so on. These

CIA-RDP86-00513R001031020002-2"

APPROVED FOR RELEASE: 06/20/2000

.Some problems concerning hydraulic conditions of district-heating systems during combined operation of heat and electric power stations

questions have never been analysed in a general way although they are of considerable practical importance. The article therefore gives a theoretical analysis of the location of the 'water-shed' in a system of two heat and electric power stations with pumping and throttling substations. Figs, 2 and 3 graph pressures at these two sub-stations. In both cases the position of the 'watershed" is altered and this changes the quantity of hot water delivered by each power station. A method of determining the best location for pumping or throttling sub-stations is described with reference to the graphs The article then considers pressure changes on the intake headers of power stations operating in parallel when pumping and throttling sub-stations are included in the heating system. Pressure graphs showing the effect of a number of pumping sub-stations are given in Fig. 5 and pressures in a system with three power

stations in Fig.6. The hydraulic design of a ring-main Card 2/2 system as illustrated in Fig. 7 is also considered.

There are 8 figures and 1 Russian reference. ASSOCIATION: All-Union Thermo-Technical Institute. (Vsesoyuznyy

Teplotekhnicheskiy Institut);

AVAILABLE: Library of Congress.

# "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

Operational testing of individual mechanical temperature control devices. Vod. i san. tekh. no.10:25-28 0 '61.

(Temperature regulators—Testing)

(MIRA 14:11)

# "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

YAKTMOV, L.K.; LYAKHOV, O.G.; YAKTMOV, O.L.

Contact watertube boiler unit for heat supply to industrial enterprises. Prom.energ. 17 no.1:12-15 Ja '62.

(Boilers, Watertube)

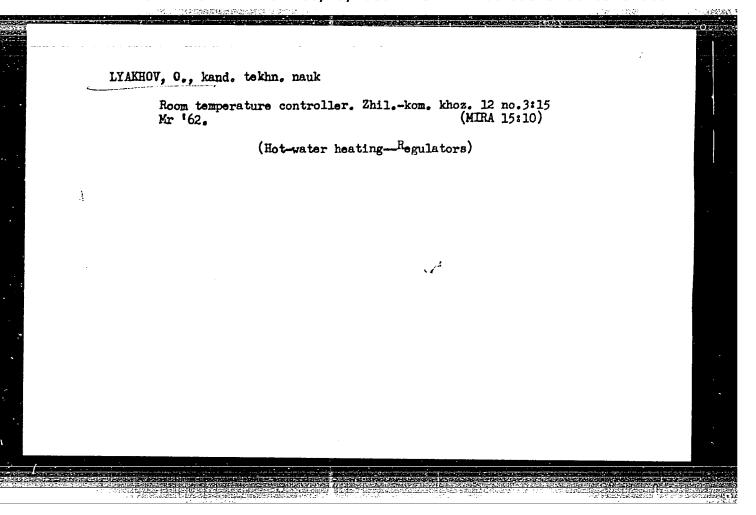
(Boilers, Watertube)

LYAKHOV, O.G.; KHASILEV, V.Ya.

Control characteristics of individual heat regulators for buildings heated from central stations. Sbor. nauch. rab.

AKKH no.9:179-189 '61. (MIRA 16:1) (Thermostat) (Heating from central stations)

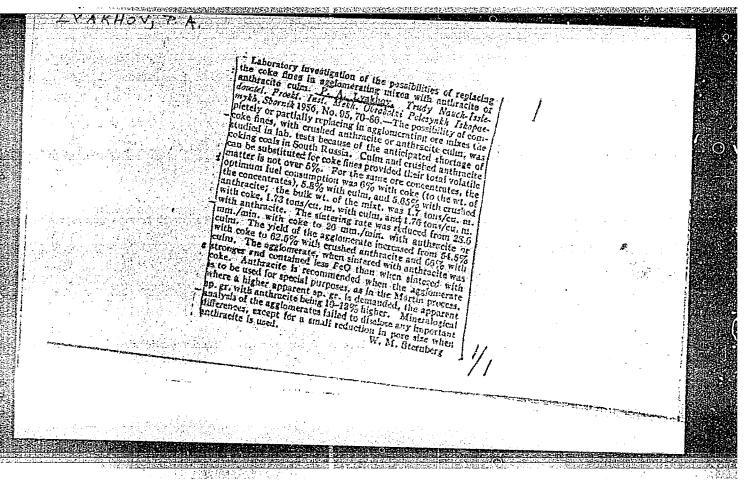
# "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2



YAKIMOV, L.K.; LYAKHOV, O.G.; KHASILEV, V.Ya.; YAKIMOV, O.L.

An efficient type of water heating boiler unit with a contact chamber for a one-pipe system of centralized heat supply. Sbor. nauch. rab. AKKH no.9:31-50 '61. (MIRA 16:1) (Heating from central stations) (Water heaters)

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2



#### "APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020002-2

LYAKhov, P.A.

137-58-2-4443

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 306 (USSR)

AUTHOR:

Lyakhov, P.A.

TITLE:

Labor Conditions at KYuGOK Sintering Plant Improved by Partial Cooling of Returns (Uluchsheniye usloviy truda na aglomeratsionnoy fabrike KYuGOK'a za schet chastichnogo okhlazhdeniya vozvrata)

PERIODICAL: Obogashcheniye rud, 1957, Nr 2, p 52

ABSTRACT:

Water-cooling the returns down to 200°C increased output efficiencey and reduced the dust volume by 89% at the returndosing tables, 93% at the conveyers bringing up the hot returns for the furnace charge, 63% in the gallery behind the primary mixers.

Ye.L.

1. Industrial plants-Efficiency

Card 1/1

Cooling the agglomerate by outdoor storage. Obog. rud 2 no. 6:51-54 '57. (Ore dressing)

137-58-4-6420

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 12 (USSR)

AUTHOR: Lyakhov, P. A.

TITLE: Industrial-scale Experiments in the Sintering of Heated Charges

at the Temporskaya and im. Serov Mill Sintering Plants (Promyshlennyye opyty spekaniya nagretoy shikhty na aglomeratsion-

nykh fabrikakh Vysokogorskoy i zavoda im. Serova)

PERIODICAL: Sb. nauchno-issled. rabot N.-i. i proyektn. in-t mekhan. obrabotki poleznykh iskopayemykh, 1957, Nr 99, pp 94-112

ABSTRACT: The problem of increasing the unit productivity of sintering

machines by heating the charge was studied under industrial conditions. The increase in productivity attained under laboratory conditions was not confirmed by industrial practice at these plants. Experiments determined that the charge might be heated to 55-60°C in winter. Heating of the charge to 55-60° eliminates the formation of a moisture condensation zone in the lower strata

of the layer of material being sintered, and this increases the productivity of the plant, the increase being the greater, the finer is the material in question. In sintering ore fines (12-0 mm) the

Card 1/2 unit productivity rose by 6-7 percent, while in sintering fine con-

137-58-4-6420

Industrial-scale Experiments in the Sintering of Heated Charges (cont.)

centrates wherein the charge contained up to 28.3 percent of the fraction smaller than 0.15 mm, the result was an increase of up to 16 percent. The method by which the charge is heated should best be one in which returns are the last component added to the charge, and to accomplish this the proportioning conveyor carrying all the charge components should pass beneath the returns bins, as has been provided at Goroblagodat Mill Nr 2 and at the Kamysh-Burun and Vysokogorsk plants. This procedure is recommended for wet and fine concentrates. At the mill of the im. Serov Plant, more than 1/2 of the ore component of the charge is delivered by a special conveyer to a point beneath the return bin. The hot returns are dumped onto this ore bed, and the mixture of ore and returns goes to the charge bins in which the cold ore is heated by the hot returns. The next step is charging in the usual fashion. In a case in which the hot returns are mixed with a highly moist concentrate (KMA ore), it is dried by the heat of the returns, with the result that the charge reaches the sintering machine at a maximum temperature of 30-34°. Recommendations for the design of a sintering plant with preheating of the charge are provided.

A. Sh.

1. Fuels--Sintering--Test methods 2. Fuels--Sintering--Test results

Card 2/2

Lyn Khov, D.A.

137-1958-2-2263

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 7 (USSR)

AUTHOR: Lyakhov, P.A.

TITLE: On the Blending of Sintering Charges (O smeshivanii aglomeratsi-

onnykh shikht)

PERIODICAL: Tr. N.-i. i proyektn. in-ta mekhan. obrabotki poleznykh

iskopayemykh, 1957, Nr 100, pp 29-45

ABSTRACT: A study was made of the influence of various factors on the blending of sintering charges. It was found that the most efficient

of the barrel-type and trough-type blenders was a tumbling-barrel-type blender with baffles mounted in a checkerboard pattern at regular intervals along its interior surface. The dimensions of the baffles were: width 0.07, height 0.09, and horizontal interval between baffles 0.03 of the diameter of the barrel. The rows of baffles lining the inside of the barrel numbered 6-8. A lower efficiency was exhibited by barrel-type blenders with smooth interior surfaces and baffles of differing shapes and dimensions, also by barrel-type blenders with reversed-archimedic-screw interiors, and by trough-type blenders with screw-type or worm-

Card 1/2 type mixing elements. Results were especially poor when a barrel-

137-1958-2-2263

On the Blending of Sintering Charges

type blender with a smooth interior surface was used. Optimum duration of the blending operation was 3 minutes; the optimum load comprised 10% of the volume of the containing barrel. Optimum revolving speed was 0.8 - 0.9 meters per second.

1. Sintering charges—Blending 2. Sintering charges—Test methods 3. Sintering charges—Tests results

Card 2/2

SOV /137-58-7-14059

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 11 (USSR)

AUTHOR: Lyakhov, P. A. CONTRACTOR OF THE PROPERTY OF THE PARTY OF T

Experiences in the Starting and Operation of the Cherepovets TITLE:

Agglomeration Plant (Opyt puska i ekspluatatsii Cherepovetskoy

aglomeratsionnoy fabriki)

PERIODICAL: [Tr.] Vses. n.-i. i proyektn. in-ta mekhan. obrabotki

poleznykh iskopayemykh, 1957, Nr 102, pp 98-106

Built in accordance with a design by the Mekhanobr Institute, ABSTRACT:

this plant, the first in our country to have sintering machines of 75 m<sup>2</sup> area and an exhauster fan of 6500 m<sup>3</sup>/min capacity, showed good results in the initial period of operation. The flow-sheet adopted, providing for heating of the charge and, screening of the sinter fines both before and after cooling assures a relatively high unit capacity of the machine and production of high-quality sinter. Detailed description is given of the preparation of the raw material and fuel, the proportioning of the charge to the sintering machine, the sintering process, the operation of the fan, crushing of the sinter, and cooling of the sinter in a bowl-type cooler.

1. Industrial plants--Operation 2 Sintering--Equipment A. Sh. Card 1/1

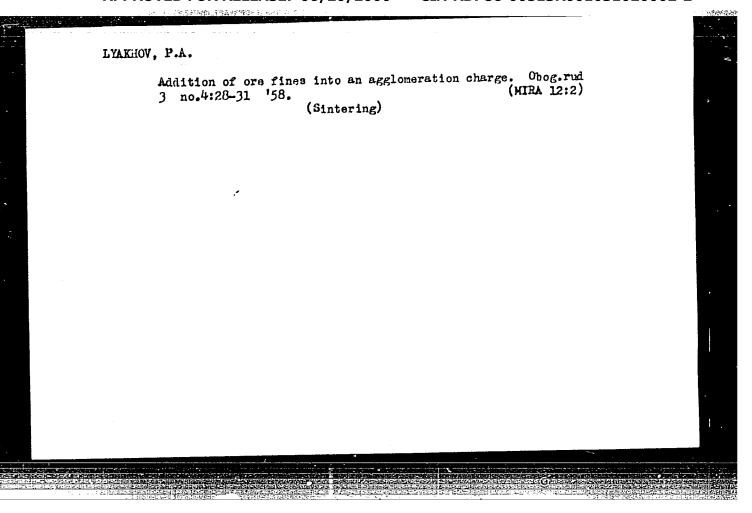
CIA-RDP86-00513R001031020002-2" APPROVED FOR RELEASE: 06/20/2000

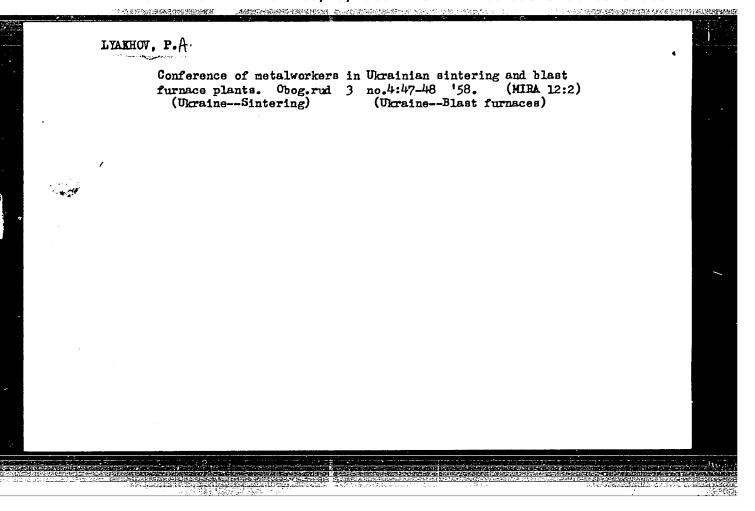
LYAKHOV, P.A.; GENERALOV, G.S.; KIOCHKOVA, N.D.; KUNIN, L.Ye.; KUSHNEROV, V.A.;
ROYENSKIY, I.I.

Addition of pyrite cinder to the agglomeration charge.
Obeg. rud. 3 no.3:24-25 '58.

(Sintering) (Pyrites)

(Sintering) (Pyrites)





sov/133-59-9-3/31

AUTHORS:

Lyakhov, P.A. and Kunin, L.Ye.

TITLE:

Operation of the Second Sinter Plant in its Starting

Stage on the Southern Mining and Ore Dressing

Combine (KYuGOK)

PERIODICAL: Stal', 1959, Nr 9, pp 776-782 (USSR)

ABSTRACT:

The flow of materials (Fig 1) and operating conditions of the new sinter plant during the initial period of its operation are described. The plant was designed for sintering of concentrates (no data given) with some addition of Krivoy Rog ore fines 0 - 10 mm (about 20%) at a rate of 0.86 ton/m2 hour. Characteristic feature of the plant is the hydraulic removal of dust from multicyclones which considerably improved working conditions in this part of the plant. In the older plant operating in the works, the removal of dust from the multicyclones was done through a double seal by a conveyor belt. The concentration of dust in air in this part of the plant sometimes reached 2000 to 3000 mg/m<sup>3</sup>. The hydraulic removal of dust on the new plant consists of a hydraulic seal (Fig 3) connected to a constant level water tank. Dust falling from the multicyclone

Card 1/3

SOV/133-59-9-3/31

Operation of the Second Sinter Plant in its Starting Stage on the Southern Mining and Ore Dressing Combine (KYuGOK)

settles on the surface of the water and sinks. A continuous stream of water carries the dust into a collecting sump from which the pulp is pumped into a classifier. The amount of dust collected amounted to about 0.7 ton/hr per strand. The coarser particles separated in the classifier are returned to the sinter mix and the remaining dust is lost with water (85% of the total). The chemical composition and size distribution and magnetic properties of the dust are given in Table 2. It is expected that the magnetic recovery of the dust will be introduced. The other feature of the plant is the ventilation scheme of the conveyor belts housing (Fig 4) and partial covering of the sinter strand. The above measures improved the working conditions (measured by the concentration of dust in various parts of the plant) in comparison to those on the older plant. Some experiments on the effect of the height of the sinter bed (for concentrates alone and concentrates mixed with 20% of ore fines) and the effect of preheating the mix by hot return fines on the output of

Card 2/3

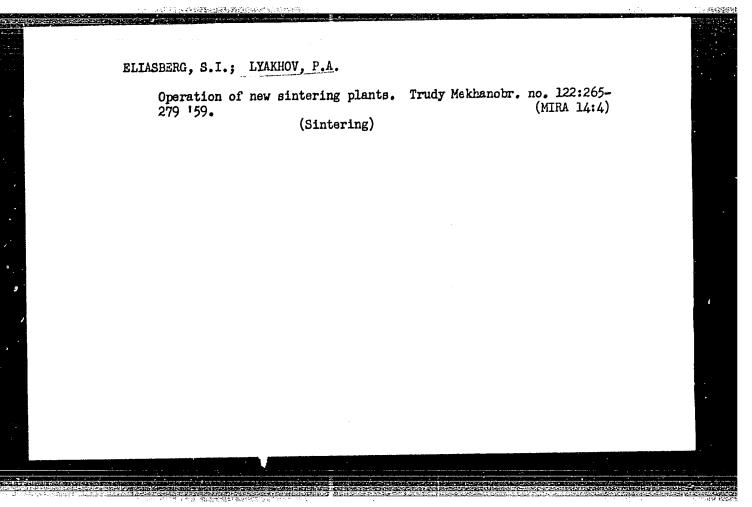
SOV/133-59-9-3/31

Operation of the Second Sinter Plant in its Starting Stage on the Southern Mining and Ore Dressing Combine (KYuGOK)

sinter were carried out. It was found that preheating of the mix with hot return fines from 28 to 53°C increased the output by 21%. The basicity of sinter was maintained at 0.4 due to the lack of limestone crushing capacity. It is concluded that the output of sinter already exceeded the design figure (0.94 to 0.95 ton/m²hr, design output 0.86 ton/m²hr) and can be further increased by the addition of 1 to 3% of lime. For further improvement of working conditions conveying of return fines in closed vibrational conveyors should be introduced. There are 4 figures and 2 tables.

ASSOCIATION: Mekhanobr

Card 3/3

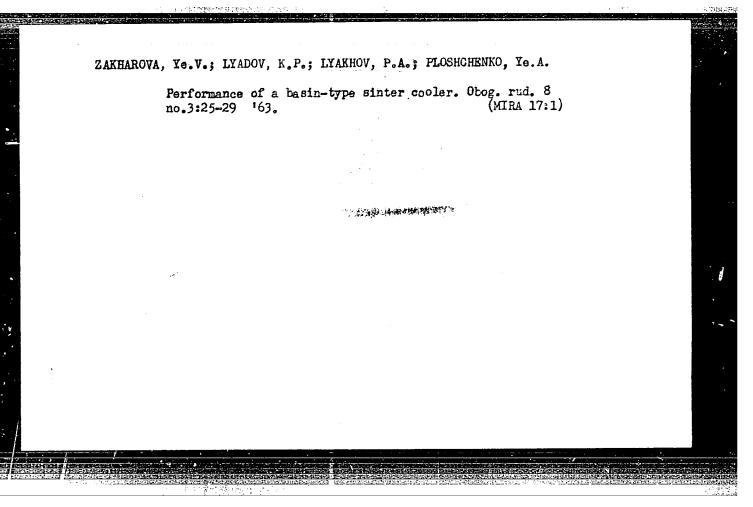


LYAKHOV, P.A.; KUNIN, L.Ye.; Prinimali uchastiye: KUSHNIROV, V.A.; KLOCHKOVA, N.D.; SEREBRYANNIK, G.I.

Hydraulic dust removal from cyclone banks in the sintering plants of the Southern Ore-Dressing Combine. Obog. rud 5 no.6:49-53 '60. (MIRA 14:8)

Relationship between the indices of the sintering process and the amount of air drawn through. Obog. rud 6 no.4:30-32 '61.

(Sintering)



LYAKHOV, P.A., kand. ekonom. nauk

Developing cooperation among socialist countries in the field
of road transportation. Uch. 2ap. LIIZHT no.3:155-176 '62.

(MIRA 17:3)

LIACHOV, S. M.

"An Investigation of the Adaption of Rheophilen,"

Dok. AN, 32, No. 8, 1941. Biol. Sta. Acad. Sci.

Urk., Karadag, -c1941-.

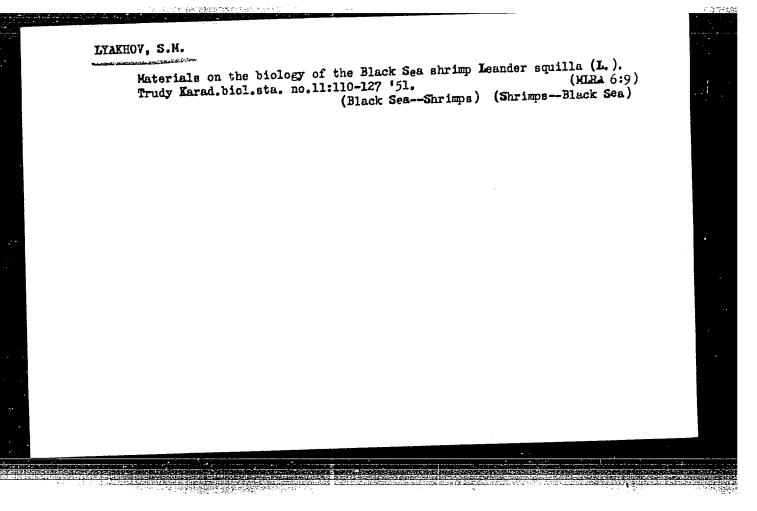
USSR/Medicine - Marine Organisms May 48

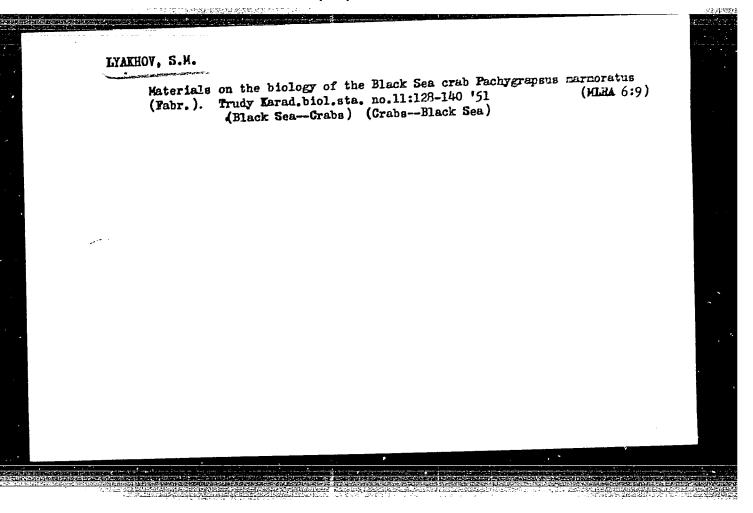
Medicine - Wood

"Studies Conducted in an Aquarium to Determine the Amount of Damage Caused by Borers to Wood," S. M Lyakhov, 2 p

"Priroda" No 5

Previous efforts in this field have been unsuccessful Lyakhov describes his method of research and results obtained, using specimens of Teredo navalis taken from Black Sea.





# LYAKHOV, S.M. (Kuybyshev

Studying the flow of organic and mineral matter in the Volga River near Kuybyshev and preliminary results of the first year's work (1951-52).

(MLRA 10:5)

(Volga River -- Water -- Analysis)

#### LYAKHOV, S.N.

General study of the organiama in a given segment of the Volga River, at a given time. Zool. zhur. 32 no.3:358-360 My-Je 153. (MLRA 6:6)

1. Zoologicheskii institut Akademii nauk SSSR. 2. Kafedra biologii Kuyby-shevskogo meditsinskogo instituta. (Volga River--Fresh-water biology)

LYAKHOV, S.M.; ZHIDKOV, L.F.

Bottom snare, an apparatus for studying the drift of benthic organisms in a river current. Zool.zhur. 32 no.5:1020-1024 S-0 '53. (MLRA 6:10)

1. Kafedra obshchey biologii Kuybyshevskogo gosudarstvennogo meditsinskogo instituta i Zoologicheskiy institut Akademii nauk SSSR.

(Fresh-water fauna)

KOSHEVA, A.F.; LYAKHOV, S.H.

Case of parasitic leech Herpobdella octoculata L. in the nasal cavity. Med. paraz. i paraz. bol. no.4:355-356 0-D 154.

1. Iz kafedry obshchey biologii Kuybyshevskogo meditsinskogo instituta (dir. instituta prof. T.I. Broshevskiy, zav. kafedroy prof. S.M. Shchikleyev)

(LEECHES,

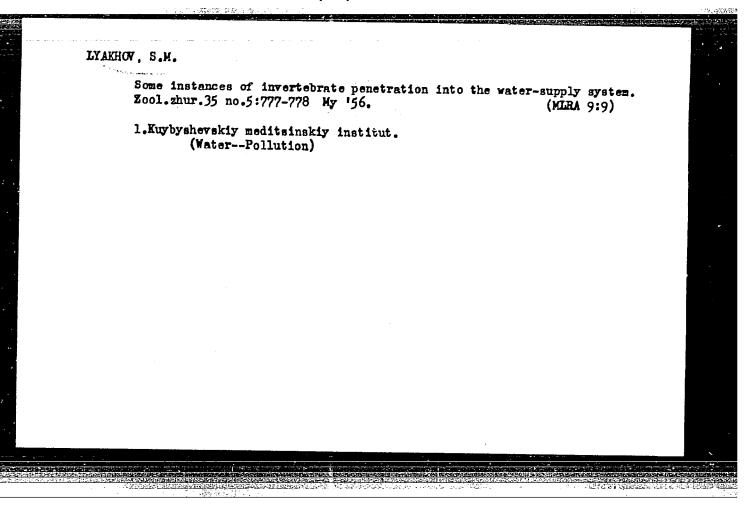
Herpobdella octoculata in nasal cavity) (NASAL CAVITY, diseases, Herpobdella octoculata infestation)

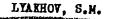
CIA-RDP86-00513R001031020002-2" APPROVED FOR RELEASE: 06/20/2000

#### IYAKHOY, S.M.

Number of generations of tendipes (diptera, tendipedidae) in collective farm ponds in the Kuibyshev Province. Dokl.AH SSSR 95 no.5:1113-1115 Ap '54. (MLRA 7:4)

1. Kuybyshevskiy gosudarstvennyy meditsinskiy institut.
Predstavleno akademikom Ye.N.Pavlovskim.
(Kuibyshev Province-Diptera) (Diptera-Kuibyshev Province)





Benthonic population of the Volga River near Frunze Polyana.

Trudy probl. i tem. sov. no.7:116-120 57. (MLRA 10:4)

(Volga River--Fresh water fauna)

KOSLOVA, N.N.; LYAKHOV, S.M.

Larva of Minfeldia of the group Carbonaria Mg. f.l. reducta Tshern.
(Diptera, Tendipedidae) and its biology [with summary in English].
Zool. zhur. 36 no.7:1101-1104 Jl '57. (MLEA 10:9)

1. Kafedra biologii Kuyshevekogo meditainskogo instituta.

'(Volga Valley--Chironomidae)
(Larvae--Insects)

#### LYAKHOV, S.M.

Distribution range of Caspian amphipods in the Volga River at the beginning of its hydrotechnical reconstruction. Mauch. dokl.vys.shkoly;biol.nauki no.3:16-19 '58. (MIRA 11:12)

l. Predstavlena kafedroy biologii Kuybyshevskogo gosudarstvennogo meditsinskogo instituta.
(Volga River--Amphipoda)

